

PARTICULATE FILTER/REGULATOR

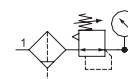
SERIES

651

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653

- High flow with a wide range of adjustable output pressure ranges
- Optional low profile integrated gauge, round gauge, digital gauge or digital pressure switch
- Optional extended temperature range of -40°C to +80°C
- Threaded ports allow for individual or modular mounting
- Sintered polyethylene elements include 5 and 25 Microns
- Innovative two position plastic drain with manual and semi-automatic functions. Additional drains include an automatic style (brass) and manual (stainless steel)
- Polycarbonate and Aluminium bowls with or without glass gauge, to meet industry all application requirements
- Key lockable and tamper resistant models
- Air Purity Class according to ISO 8573-1: 2010



Performance Data						
Series		651	652	653		
Port sizes		1/8, 1/4	1/4, 3/8, 1/2	3/4, 1		
Thread type		G (NPTF in option)				
Nominal flow - ISO 6358 P1 = 10 bar Setpoint P2 = 6,3 bar ΔP = 1 bar	1/8	Micron Rating	l/min (ANR)	l/min (ANR)		
		5 μm	710	-	-	
	1/4	25 μm	730	-	-	
		5 μm	2240	3800	-	
	3/8	25 μm	2360	4120	-	
		5 μm	-	4450	-	
	1/2	25 μm	-	5420	-	
		5 μm	-	4490	-	
	3/4	25 μm	-	5500	-	
		5 μm	-	-	8900	
	1	25 μm	-	-	9000	
		5 μm	-	-	10000	
	Maximum inlet pressure (bar)		Polycarbonate bowl	16		12
			Aluminium bowl	16		20
Adjustable pressure ranges (bar)		0,2 to 3				
		0,5 to 10				
		-	-	0,5 to 16 *		
Hysteresis (bar)		0,3	0,5	0,4		
Ambient temperature range (°C)		-20 to +50				
Fluid temperature range (°C)		-20 to +50				
Fluid		air or inert gas				
Weight (kg)		w/Polycarbonate bowl	0,304	0,546	1,315	
		w/Aluminium bowl	0,449	0,688	1,565/1,769 *	

* High pressure assisted version.

Materials in contact with fluid	
Body	Aluminium
Seals	NBR/FPM
Springs	Stainless steel
Filter element	Sintered polyethylene
Bowl	Polycarbonate or aluminium
Poppet	Brass
Cover / Stem	PA (Polyamide)

Air Purity Class - ISO 8573-1: 2010	
5 μm	(5:8:4)
25 μm	(6:8:4)

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Air Preparation - 19

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HOW TO ORDER

Particulate Filter/Regulator

G 651 A P B P 2 G A00 H N

[Configurator - CAD Files](#)

Thread connection

- G = ISO 228/1-G ⁽¹⁾
- 8 = NPTF

Product series

- 651
- 652
- 653

Revision letter

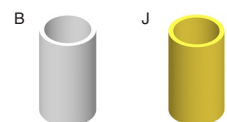
A

Product type

- P = Filter/Regulator - Particulate

Elements

- B = 5 µm (White)
- J = 25 µm (Yellow)



Bowl type

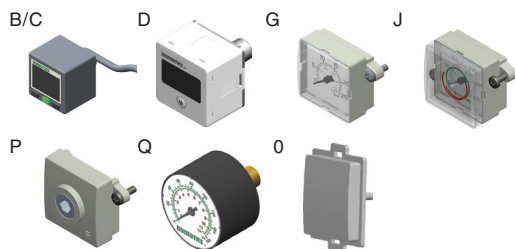
- K = Metal bowl without sight gauge
- L = Metal bowl with sight gauge (glass)
- P = Polycarbonate bowl with bowl guard

Port size

- 1 = 1/8 (651 Series)
- 2 = 1/4 (651 or 652 Series)
- 3 = 3/8 (652 Series)
- 4 = 1/2 (652 Series)
- 5 = 3/4 (653 Series)
- 6 = 1 (653 Series)

Gauge type

- B = Digital pressure switch - PNP
- C = Digital pressure switch - NPN
- D = Digital gauge
- G = Low profile integrated gauge bar/PSI
- J = Low profile integrated gauge bar/PSI with pressure range indicators
- Q = Round gauge bar/PSI
- 0 = No gauge port
- P = Port Plate Rc 1/8



Drain type

- 0 = Without
- A = Auto drain normally open
- N = Manual/Semi-automatic drain
- Q = Manual drain - Stainless steel



Pressure range

- D = 0,2..3 bar
- H = 0,5..10 bar
- N = 0,5..16 bar (653 only) ⁽²⁾

Options ⁽³⁾

- A00 = Without option
- 101 = Side Mounting Brackets
- 102 = Panel Nut (651 or 652)
- 103 = Tamper resistant
- 104 = Key lockable
- 105 = High temperature (+80°C)
- 106 = Low temperature (-40°C) ⁽⁴⁾
- 109 = FPM seals
- 113 = Stainless steel fasteners
- 114 = Provision for key lock
- 117 = ATEX zones 1-21
- 119 = Panel Bracket with Panel Nut (651 or 652)
- 121 = Non-relieving
- 123 = Gauge type mounted for right-to-left flow
- 124 = CUTR Certification (EAC)
- 125 = CUTR Ex
- 202 = 105 + 109
- 2A9 = 105 + 106



⁽¹⁾ Conforms to ISO standards 1179-1.

⁽²⁾ Metal Bowl Types K or L only.

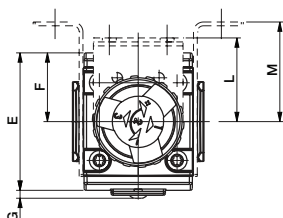
⁽³⁾ If multiple options are required, please use the on-line CAD configurator on the website to generate the part number (www.asco.com).

⁽⁴⁾ Compressed air must be dry enough so no ice formation is present on the product. All bowls should be emptied prior to ambient temperatures dropping below 0°C.

Dimensions: mm

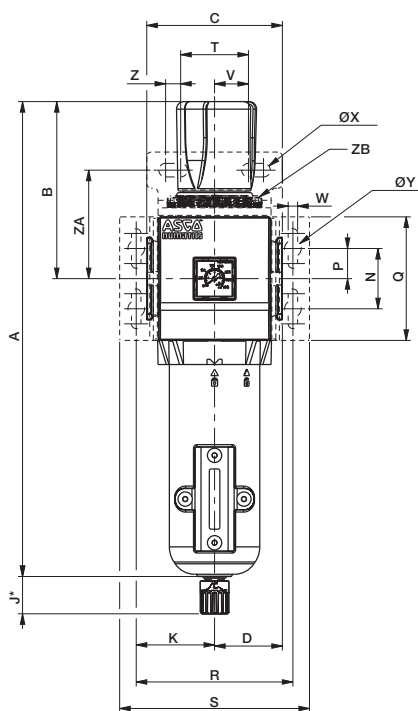
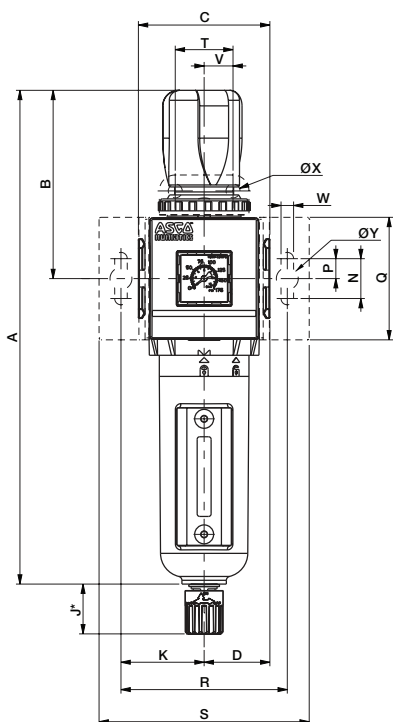
Dimensional Drawing - 651/652/653 Series Particulate Filter/Regulator

[Configurator - CAD Files](#)

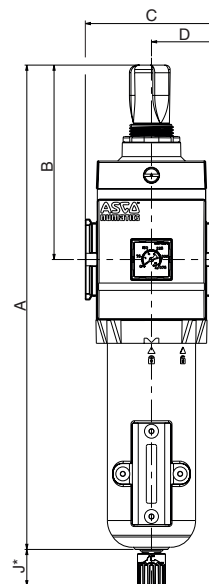


651/652 Series

653 Series



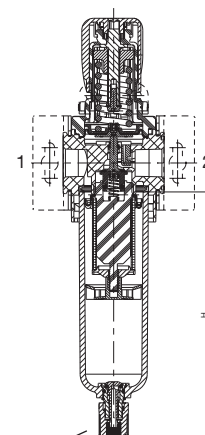
653 Series High Pressure
(16 bar)



Series	A	B	C	D	E
653	329,5	132	90	45	93,6

Series	F	G	H	J*
653	46,2	2,7	158,9	25

Cross Section -
651/652/653 Series
Particulate Filter/Regulator



To remove bowl allow:
651 - 44 mm
652 - 75 mm
653 - 100 mm
from the bottom
of the bowl drain.

Series	A	B	C	D	E	F	G	H	J	K	L	M
651	215,5	77,5	50	25	58	29	3,4	116	25	35	42	44,5
652	248	94,5	66	33	69	30,5	4	160	25	41,75	42	50
653												

Series	M	N	P	Q	R	S	T	V	W	ØX	ØY
651	44,5	20	10	50	70	92	29	14,5	6,3	7	11
652	50	20	10	61,5	84	105,5	29	14,5	6,3	7	11

* Variable dimension based on type of drain that is specified. If an Automatic Drain is specified, add another 5 mm to "J" dimension.

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SERIES

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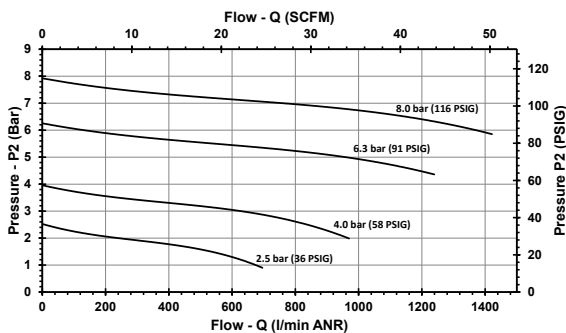
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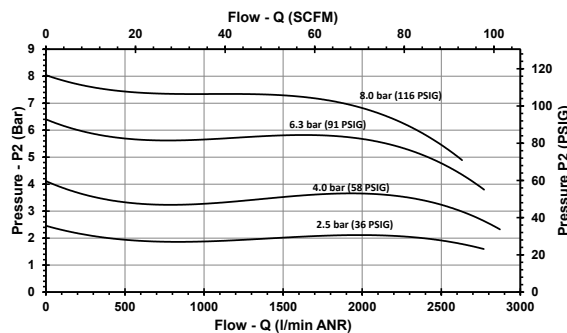


Particulate Filter/Regulator Flow Charts

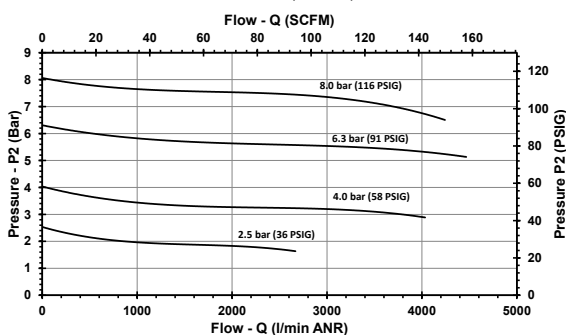
651 Filter-Regulator | 25µ Filtration | 1/8 Ports
P1 = 10 Bar (145 PSIG)



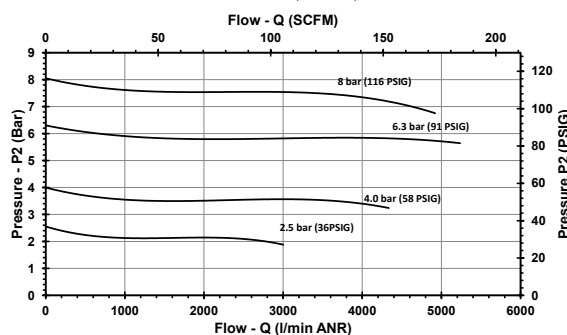
651 Filter-Regulator | 25µ Filtration | 1/4 Ports
P1 = 10 Bar (145 PSIG)



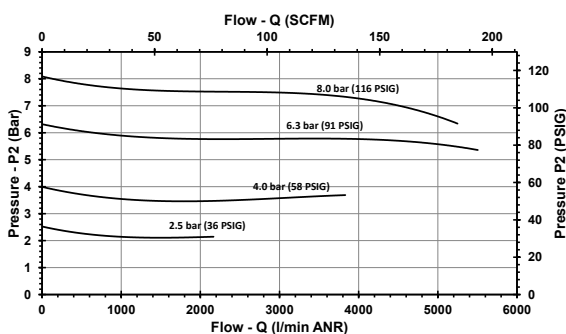
652 Filter-Regulator | 25µ Filtration | 1/4 Ports
P1 = 10 Bar (145 PSIG)



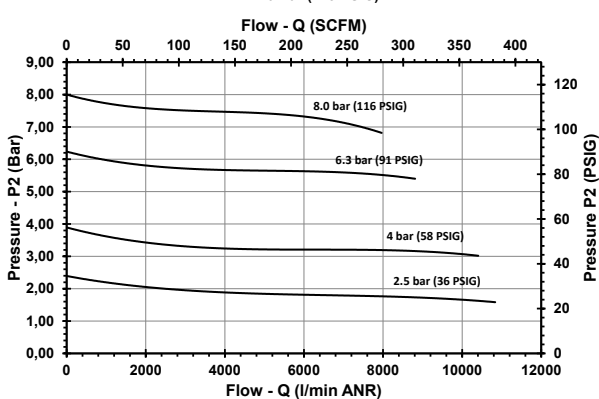
652 Filter-Regulator | 25µ Filtration | 3/8 Ports
P1 = 10 Bar (145 PSIG)



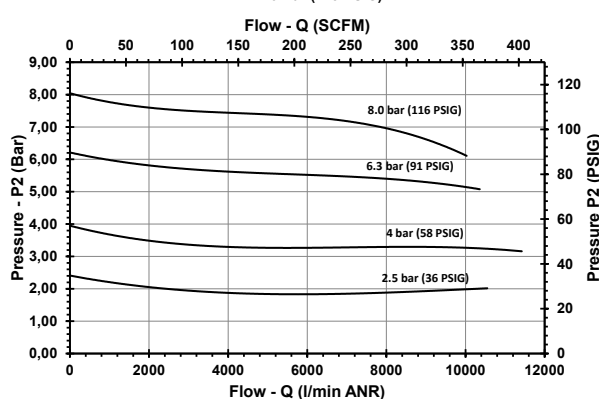
652 Filter-Regulator | 25µ Filtration | 1/2 Ports
P1 = 10 Bar (145 PSIG)



653 Filter-Regulator | 25µ Filtration | 3/4 Ports
P1 = 10 Bar (145 PSIG)



653 Filter-Regulator | 25µ Filtration | 1" Ports
P1 = 10 Bar (145 PSIG)



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